

**THAILAND 8803--**

**MALAYSIA 8804--**

**SINGAPORE 8804--**



**AMPAD**

AMERICAN PAD & PAPER CO./HOLYOKE, MASS. 01040

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# **Citadel. NOTEBOOK**

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50 SHEETS

5 x 3

NARROW RULED

25-095



Gear: HMD Higgins Meibenthic Dredge  
HMM Higgins Minimeio Dredge  
GRB Grab (type specified)  
BOX Box corer (type specified)  
TUB Core tube (type specified)  
OTH Other (type specified)  
Proc: B Bubble  
D Decant  
U Unprocessed substrate  
/FW Freshwater shock  
/M Magnesium chloride  
Pres: 6F 6% Formalin  
70A 70% Ethanol  
Lots: 30-ml (bubble sample)  
60-ml (decant sample)  
1-dr (sorted sample)  
Tape: Red Kinorhyncha or =import  
Color Yel Residue  
Blu Tardigrada  
Whi Unsorted sample  
Grn Give-away sample  
Cap: Red Kinorhyncha  
Color Ora Loricifera or Priapulida  
Yel Residue  
Blu Tardigrada  
Whi Other  
Grn Give-away

Field No (yr mo da . sta): 880325 . 1  
Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]  
ISW [ ] INE [ ] ISW [ ] ISC [X] ISE [ ]  
PNW [ ] PNE [ ] PSW [ ] PSE [ ]  
Subreg: Gulf of Thailand  
Local: Hua Hin Beach  
Lat: \_\_\_\_\_ Long: \_\_\_\_\_  
Intertidal [✓] Horizon (cm): 10  
Subtidal [ ] Depth (m) \_\_\_\_\_  
Habitat-1: Sedmt [✓] Anim [ ] Plant [ ]  
Habitat-2 (descr): med w/s quartz sand  
Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_  
Gear: other (hand) Proc: D  
Fix: 10F Lots: 4-60 ml discarded  
Col: R.P. Higgins [✓]  
Ackn: \_\_\_\_\_  
Rmks: \_\_\_\_\_  
RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880325 . 2

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

ISW [ ] INE [ ] ISW [ ] ISC [x] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Gulf of Thailand

Local: Chumphon Bay

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [x] Depth (m) 4

Habitat-1: Sedmt [ ] Anim [ ] Plant [ ]

Habitat-2 (descr): \_\_\_\_\_

Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: B

Fix: IDF Lots: 1-30 ml

1-1 dr

Col: R.P.Higgins [x] \_\_\_\_\_

Ackn: \_\_\_\_\_

Reks: Pycnophyes Edmodius  
(abund) (abund)

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



✓ 3

Field No (yr mo da . sta): 880326 . 1

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Andaman Sea

Local: Phang-nga Province, Amphoe Kuraburi  
Mouth of Khura Channel (near Khura Buri)

Lat: 009°13.9'N Long: 098°21.0'E

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [☒] Depth (m): 5-10

Habitat-1: Sedmt [☒] Anim [ ] Plant [ ]

Habitat-2 (descr): muddy coarse sand

Esturine [☒] S(ppt): 29‰ T(C): \_\_\_\_\_

Gear: HMM Proc: B/D

Fix: 10F Lots: 1-30ml 160ml

1-12h

Col: R.P.Higgins [ ] \_\_\_\_\_

Ackn: \_\_\_\_\_

Reks: Echinoderm (rare) Pyrosophus (1)

RH No: \_\_\_\_\_ Acc No: \_\_\_\_\_



✓ 4

Field No (yr mo da . sta): 880326 . 2

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [X] ISC [X] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Andaman Sea

Local: (other data as in 26.1)  
between Ko Ra (Island) and Khlong Khura

Lat: 009°14.0' N Long: 098°20.0' E

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [X] Depth (m): 5

Habitat-1: Sedmt [X] Anim [ ] Plant [ ]

Habitat-2 (descr): muddy sand

Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMP Proc: D

Fix: 10 F Lots: 1-60ml

Col: R.P.Higgins [ ] \_\_\_\_\_

Ackn: \_\_\_\_\_

Refs: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc No: \_\_\_\_\_



Field No (yr mo da . sta): 880326 . 3

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [X] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Andaman Sea

Local: In Bay on W coast Ko Ra

Lat: 009°13.0'N Long: 098°16.5'E

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [X] Depth (m): 6

Habitat-1: Sedmt [X] Anim [ ] Plant [ ]

Habitat-2 (descr): fine sandy mud

Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: D

Fix: 10F Lots: 1-60m

Col: R.P.Higgins [ ] \_\_\_\_\_

Ackn: \_\_\_\_\_

Remarks: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc No: \_\_\_\_\_



Field No (yr mo da . sta): 880327 . 1

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

ISW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Andaman Sea

Local: S of Ko Lao (Island) SW of Ranong

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [X] Depth (m) 6

Habitat-1: Sedmt [X] Anim [ ] Plant [ ]

Habitat-2 (descr): muddy fine sand

Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: B/D

Fix: 10F Lots: 1-30ml 1-60ml

1-1dr

Col: R.P.Higgins [ ] \_\_\_\_\_

Ackn: \_\_\_\_\_

Remarks: Echinoderes (rare)

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880327 . 29

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

ISW [ ] INE [ ] ISW ☒ ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Andaman Sea

Local: W of Ko Lao (Is) (SW of Ranong)

Transect 2. (see NOZAWA, 1983)

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal ☒ Horizon (cm): \_\_\_\_\_

Subtidal [ ] Depth (m) 1

Habitat-1: Sedmt ☒ Anim [ ] Plant [ ]

Habitat-2 (descr): muddy fine sand

Estuarine ☒ S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: D

Fix: 10F Lots: 1-60ml

Col: R.P.Higgins [ ] \_\_\_\_\_

Ackn: \_\_\_\_\_

Refs: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880327 . 3

Reg: ANW ☐ ANE ☐ ASW ☐ ASE ☐ MED ☐

ISW ☐ INE ☐ ISW ☒ ISC ☐ ISE ☐

PNW ☐ PNE ☐ PSW ☐ PSE ☐

Subreg: Andaman ~~Seal~~

Local: Near coast of land SW of Ko Lao (Island)  
SW of Ransong (see Transect 1 of NOZAWA  
198)

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal ☐ Horizon (cm): \_\_\_\_\_

Subtidal ☒ Depth (m) 4

Habitat-1: Sedmt ☒ Anim ☐ Plant ☐

Habitat-2 (descr): fine sandy mud

Estuarine ☒ S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: B/P

Fix: 10F Lots: 1-30ml 1-60ml

1-1dr

Col: R.P.Higgins ☐

Ackn: \_\_\_\_\_

Rmks: Echinoderes Pycnophyes

(rare)

(rare)

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



✓ 9

Field No (yr mo da . sta): 880327 . 4  
Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]  
INW [ ] INE [ ] ISW [☒] ISC [ ] ISE [ ]  
PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Andaman Sea  
Local: in Mangrove Creek, near plot 2 of  
UNDP Project, SW of Ranong

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [☒] Horizon (cm): \_\_\_\_\_  
Subtidal [ ] Depth (m): 0-1  
Habitat-1: Sednt [☒] Anim [ ] Plant [ ]  
Habitat-2 (descr): mud  
Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: 4mm Proc: D  
Fix: 10 F Lots: 1-60ml

Col: R.P.Higgins [ ]  
Ackn: \_\_\_\_\_

Raks: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880328 . 1

Reg: ANW ☐ ANE ☐ ASW ☐ ASE ☐ MED ☐

INW ☐ INE ☐ ISW ☒ ISC ☐ ISE ☐

PNW ☐ PNE ☐ PSW ☐ PSE ☐

Subreg: Andaman Sea

Local: Phuket Harbor

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal ☐ Horizon (cm): \_\_\_\_\_

Subtidal ☒ Depth (m): 4

Habitat-1: Sedat ☒ Anim ☐ Plant ☐

Habitat-2 (descr): muddy brn sand

Esturine ☐ S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: B/D

Fix: 10F Lots: 1-30ml 1-60ml

Col: R.P.Higgins ☐ \_\_\_\_\_

Ackn: \_\_\_\_\_

Raks: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



✓ 11

Field No (yr mo da . sta): 880328 . 2

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW ☒ ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Andaman Sea

Local: Phuket Harbor

Lat: 07° 50.8' N Long: 98° 25.1' E

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal ☒ Depth (m): 11

Habitat-1: Sedmt ☒ Anim [ ] Plant [ ]

Habitat-2 (descr): silty coarse sand + shells

Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: AMM Proc: D

Fix: 10 F Lots: 1-60 ml

Col: R.P.Higgins [ ] \_\_\_\_\_

Ackn: \_\_\_\_\_

Refs: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880328 . 3

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

ISW [ ] INE [ ] ISW [X] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Andaman Sea

Local: Chalong Bay, S of Phuket between  
Marine Station and Ko Lon

Lat: 07° 47.5' N Long: 98° 24.3' E

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [X] Depth (m) 11

Habitat-1: Sednt [X] Anim [ ] Plant [ ]

Habitat-2 (descr): silty coarse sand + shell

Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: AMM Proc: B/D

Fix: 10 F Lots: 1-60ml 1-30ml

Col: R.P.Higgins [ ] \_\_\_\_\_

Ackn: \_\_\_\_\_

Rmks: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880329 . 1

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

ISW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: PhanogoniaLocal: mouth of River near village

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [X] Depth (m) 10

Habitat-1: Sedmt [X] Anim [ ] Plant [ ]

Habitat-2 (descr): shell w/ mud + siltEstuarine [X] S(ppt): 30 T(C): \_\_\_\_\_Gear: 14MM Proc: BFix: 10F Lots: 1-30ml

Col: R.P.Higgins [ ] \_\_\_\_\_

Ackn: 1Rmks: Pucnophyes

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880329 . 2

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Andaman SeaLocal: Phang-gua, Mouth of river

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [X] Depth (m): 3

Habitat-1: Sedmt [X] Anim [ ] Plant [ ]

Habitat-2 (descr): muddy red sand

Esturine [X] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: BFix: IDF Lots: 1-30ml1-1dr

Col: R.P.Higgins [X]

Ackn: \_\_\_\_\_

Raks: Pycnophyes

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880330 . 1

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Gulf of ThailandLocal: Samila Beach, in front of Fisheries Lab

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [☒] Horizon (cm): 20-40

Subtidal [ ] Depth (m): \_\_\_\_\_

Habitat-1: Sedat [☒] Anim [ ] Plant [ ]Habitat-2 (descr): med sand

Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: H Proc: DFix: 10 F Lots: 1 60ml

Col: R.P.Higgins [ ] \_\_\_\_\_

Ackn: \_\_\_\_\_

Rmks: 0.5 m tidal amplitude (almost atide)

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880331 . 1

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Gulf of Thailand

Local: Sonkhla, bay E of Samila Beach Hotel

Lat: Long:

Intertidal [ ] Horizon (cm):

Subtidal [X] Depth (m): 4-7m

Habitat-1: Sedmt [X] Anim [ ] Plant [ ]

Habitat-2 (descr): brown sandy mud

Esturine [ ] S(ppt): T(C):

Gear: HMM Proc: B

Fix: 10F → C Lots: 1-30ml

Col: R.P. Higgins [✓]

Ackn:

Raks: Pycnophyes + Echinoderes

RH No: Acc. No:



Field No (yr mo da . sta): 880331 . 2

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

ISW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Gulf of Thailand

Local: Sonkhla, ca. 1 Km inside Sonkhla  
Lake (Port area)

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [X] Depth (m) 4

Habitat-1: Sedmt [ ] Anim [ ] Plant [ ]

Habitat-2 (descr): muddy sand

Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: B

Fix: 10F-7C Lots: 1-30 ml

Col: R.P. Higgins [✓] \_\_\_\_\_

Ackn: \_\_\_\_\_

Rnks: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880331 . 3

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]  
INW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]  
PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Gulf of Thailand

Local: Sonkhla ca 2 km inside  
Sonkhla lake near W shore

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [X] Depth (m): 3

Habitat-1: Sedmt [ ] Anim [ ] Plant [ ]

Habitat-2 (descr): Brown mud

Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: 4mm Proc: B

Fix: 10R Lots: 1-30ml

Col: R.P.Higgins [✓] \_\_\_\_\_

Ackn: \_\_\_\_\_

Raks: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880404 . 1

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [X] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Indian Ocean

Local: Penang Island, Malaysia

Tg. Tokong

Cape

(NE corner of Island, ca 500 m from shore)

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [X] Depth (m): 1

Habitat-1: Sedmt [ ] Anim [ ] Plant [ ]

Habitat-2 (descr): sandy mud

Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: B

Fix: 10 F Lots: 1-30ml

Col: R.P. Higgins [X]

Ackn: Dr. Ong Jin-Eong Univ. Sains Malaysia

Reks: Pycnophyes Echinoderm(?)

RH No: 880404 Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880404 . 2

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [☒] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Indian OceanLocal: Penang Island, MalaysiaTg. Bungah<sup>coast</sup> ca 2 km from NE corner of island

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [☒] Depth (m): 2

Habitat-1: Sedmt [ ] Anim [ ] Plant [ ]

Habitat-2 (descr): muddy sand

Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: BFix: 10F Lots: 1-30 mlCol: R.P. Higgins [☒]Ackn: Dr Ong Jnn-Eong (see .1)Raks: Pycnophyes Echinoderes

RH No: \_\_\_\_\_ Acc No: \_\_\_\_\_



Field No (yr mo da . sta): 880404 . 3

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [X] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Indian Ocean

Local: Penang Island

Bay east of Muka Head

(Bay W of USM field station)

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [X] Depth (m): 3

Habitat-1: Sedmt [ ] Anim [ ] Plant [ ]

Habitat-2 (descr): mud (thin brown surface)

Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: B

Fix: 10F Lots: 1-30 ml

Col: R.P. Higgins [✓]

Ackn: Dr Ong Jin-Bong

Remarks: Pycnophyes Echinoderes  
(good sample)

RH No: P88-3 Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880405 . 1

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [X] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Indian Ocean Malaysia

Local: Sungai Merbok (River) mud flat  
ca 2 km from mouth

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [X] Horizon (cm): \_\_\_\_\_

Subtidal [ ] Depth (m): \_\_\_\_\_

Habitat-1: Sedmt [X] Anim [ ] Plant [ ]

Habitat-2 (descr): mud

Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: STH (hand) Proc: D

Fix: 10 F Lots: 1-60ml

Col: R.P. Higgins [X]

Ackn: Dr Ong Jiu-Eong

Raks: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc No: \_\_\_\_\_



Field No (yr mo da . sta): 880405 . 2

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [☒] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Indian Ocean, MalaysiaLocal: Sungai Merbok (River), near mouth

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [☒] Horizon (cm): \_\_\_\_\_Subtidal [☒] Depth (m): 5Habitat-1: Sedmt [☒] Anim [ ] Plant [ ]Habitat-2 (descr): mud

Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM(hard) Proc: DFix: 10 F Lots: 1-30 mlCol: R.P. Higgins [☒] \_\_\_\_\_Ackn: Dr. Ong Jin-Eong

Rmks: \_\_\_\_\_

RH No: P-88-5 Acc No: \_\_\_\_\_

2221



Field No (yr mo da . sta): 880405 . 3

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW ☒ ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: Indian Ocean Malaysia

Local: Pantai Merdeka Bay W of mouth  
of Sungai Merbok (River)

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal ☒ Depth (m): 2

Habitat-1: Sedmt ☒ Anim [ ] Plant [ ]

Habitat-2 (descr): sandy mud

Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: B

Fix: 10 F Lots: 1-30 ml

Col: R.P. Higgins ☒

Ackn: Dr. Ong Jin-Eong

Reks: Larvae of Echinoderm Pycnogonids  
Amphipods

RH No: \_\_\_\_\_ Acc No: \_\_\_\_\_



Field No (yr mo da . sta): TIOMAN 88-1 880411 . 1

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]  
INW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]  
PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: South China Sea

Local: Tioman Island, west coast  
ca 2 km N of resort

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [☒] Depth (m): 15

Habitat-1: Sednt [☒] Anim [ ] Plant [ ]

Habitat-2 (descr): muddy sand

Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: B

Fix: 10F Lots: 1-30ml

Col: R.P.Higgins [☒] \_\_\_\_\_

Ackn: \_\_\_\_\_

Refs: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): TIOMAN 88. 2  
880411 . 2  
Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]  
INW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]  
PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: South China Sea

Local: TIOMAN Island west coast  
ca 3 km n. of road

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [☒] Depth (m): 12 m

Habitat-1: Sedmt [☒] Anim [ ] Plant [ ]

Habitat-2 (descr): silty med sand

Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: D

Fix: 10F Lots: 1-60 ml

Col: R.P.Higgins [☒] \_\_\_\_\_

Ackn: \_\_\_\_\_

Refs: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc No: \_\_\_\_\_



Field No (yr mo da . sta):

T10WVAN 88-3

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

ISW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: South China SeaLocal: Tioman Island, west coast  
ca 4 km n. of resort

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ]

Horizon (cm): \_\_\_\_\_

Subtidal [✓]

Depth (m) 10

Habitat-1: Sedmt [✓] Anim [ ] Plant [ ]

Habitat-2 (descr): silty med sand

Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: 12mmProc: DFix: 16FLots: 1-Goul

Col: R.P. Higgins [✓]

Ackn: \_\_\_\_\_

Rmks: \_\_\_\_\_

RH No: \_\_\_\_\_

Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): 880415 . 1

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

ISW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: \_\_\_\_\_

Local: Malaysia, Kelang

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [☒] Horizon (cm): 1.0

Subtidal [ ] Depth (m) \_\_\_\_\_

Habitat-1: Sedmt [☒] Anim [ ] Plant [ ]Habitat-2 (descr): mangrove mudEstuarine [☒] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_Gear: OTH (hand) Proc: 0Fix: 10 F Lots: 1-60 mlCol: R.P. Higgins [☒] \_\_\_\_\_Ackn: Dr. A. SasakumariRcks: from creek dammed for irrigationupper intertidal ca 3m from mangrove

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): \_\_\_\_\_ . 2

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: \_\_\_\_\_

Local: \_\_\_\_\_

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [X] Horizon (cm): \_\_\_\_\_

Subtidal [ ] Depth (m): \_\_\_\_\_

Habitat-1: Sedat [X] Anim [ ] Plant [ ]

Habitat-2 (descr): mangrove mud

Estuarine [X] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: other (hand) Proc: 0Fix: 10 F Lots: 1-60 ml

Col: R.P. Higgins [X] \_\_\_\_\_

Ackn: \_\_\_\_\_

Raks: from mangrove creekupper intertidal ~ 3 m from mangrove

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): \_\_\_\_\_ . 3

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: \_\_\_\_\_

Local: \_\_\_\_\_

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal ☒ Depth (m): 6

Habitat-1: Sedmt [ ] Anim [ ] Plant [ ]

Habitat-2 (descr): marshy med-sand

Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMP Proc: BFix: 10P Lots: 1 30ml

Col: R.P.Higgins [X] \_\_\_\_\_

Ackn: A. Sasekumar

Raks: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc No: \_\_\_\_\_



Field No (yr mo da . sta): \_\_\_\_\_ . 4

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

ISW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: \_\_\_\_\_

Local: \_\_\_\_\_

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [ ] Horizon (cm): \_\_\_\_\_

Subtidal [X] Depth (m) 2

Habitat-1: Sedmt [ ] Anim [ ] Plant [ ]

Habitat-2 (descr): muddy fine sand

Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMM Proc: B

Fix: 10 F Lots: 1-30ml

Col: R.P.Higgins [X] \_\_\_\_\_

Ackn: A. Sasekumar

Rmks: \_\_\_\_\_

RH No: \_\_\_\_\_ Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): \_\_\_\_\_ . 5

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

ISW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: \_\_\_\_\_

Local: \_\_\_\_\_

Lat: \_\_\_\_\_

Long: \_\_\_\_\_

Intertidal [ ]

Horizon (cm): \_\_\_\_\_

Subtidal ☒Depth (m) 8

Habitat-1: Sedmt [ ] Anim [ ] Plant [ ]

Habitat-2 (descr): muddy shell gravel

Estuarine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: HMMProc: B + DFix: IOFLots: 1 30ml 1 30ml(2 30ml)Col: R.P. Higgins ☒Ackn: A SasekumarRmks: near ship channel

RH No: \_\_\_\_\_

Acc. No: \_\_\_\_\_



Field No (yr mo da . sta): \_\_\_\_\_ . 6

Reg: ANW [ ] ANE [ ] ASW [ ] ASE [ ] MED [ ]

INW [ ] INE [ ] ISW [ ] ISC [ ] ISE [ ]

PNW [ ] PNE [ ] PSW [ ] PSE [ ]

Subreg: \_\_\_\_\_

Local: \_\_\_\_\_

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Intertidal [☒] Horizon (cm): \_\_\_\_\_

Subtidal [ ] Depth (m): \_\_\_\_\_

Habitat-1: Sednt [☒] Anim [ ] Plant [ ]Habitat-2 (descr): mangrove mud

Esturine [ ] S(ppt): \_\_\_\_\_ T(C): \_\_\_\_\_

Gear: other (hand) Proc: DFix: 10 F Lots: 1 60mlCol: R.P.Higgins [☒] \_\_\_\_\_Ackn: A SasekumarRmks: near low tide mark at 880415.2

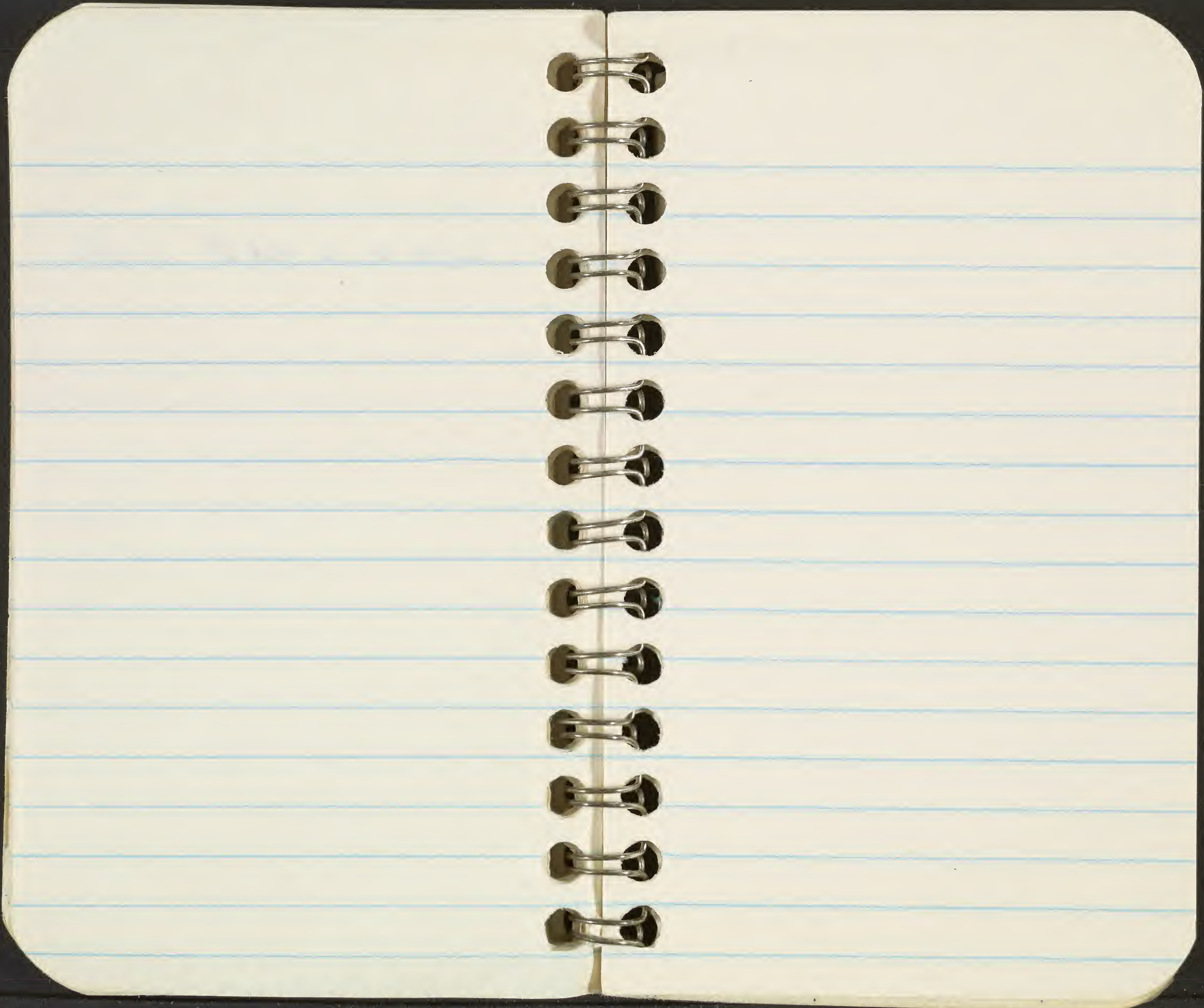
RH No: \_\_\_\_\_ Acc No: \_\_\_\_\_



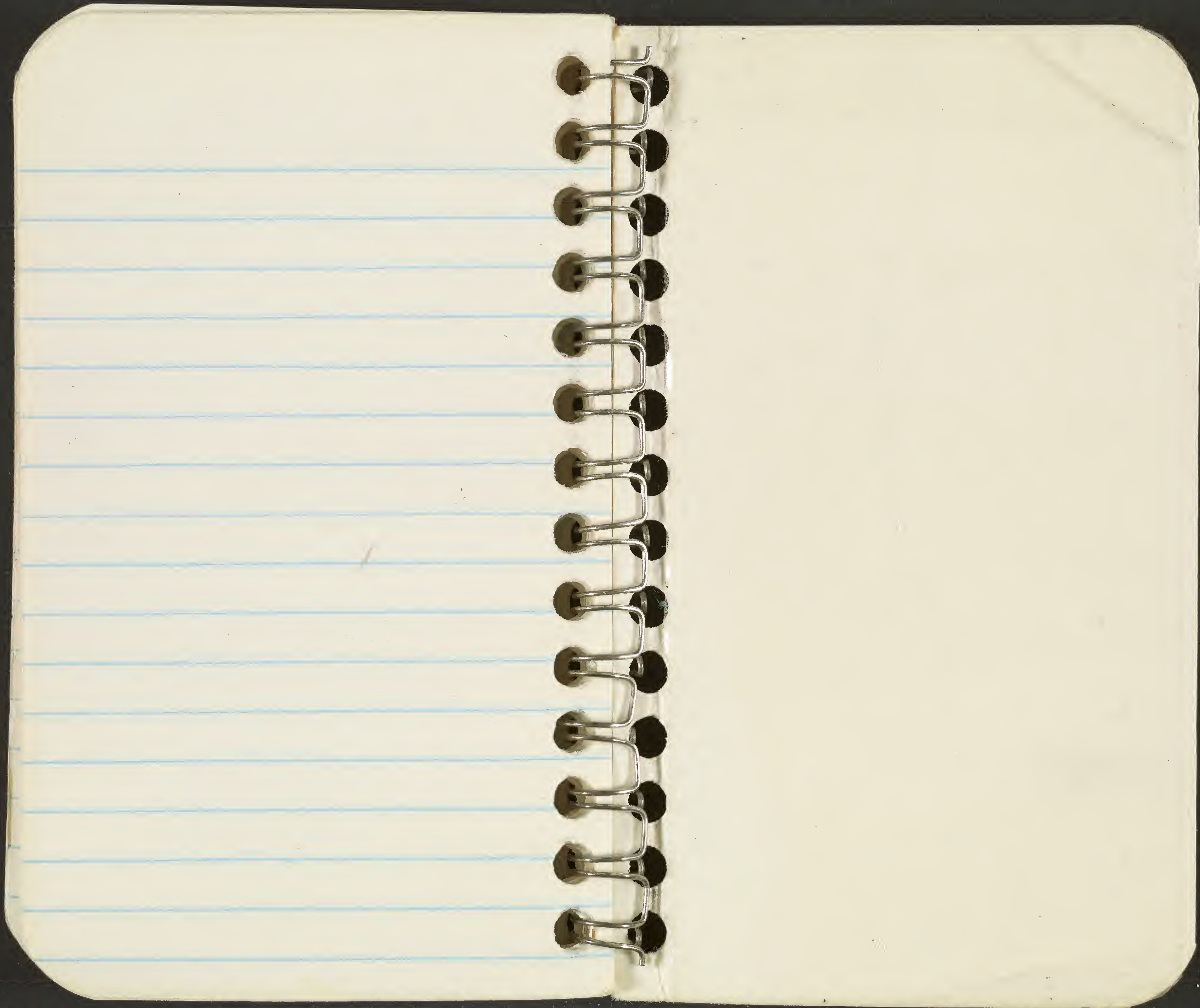
.7

same as .6 but at .1 site









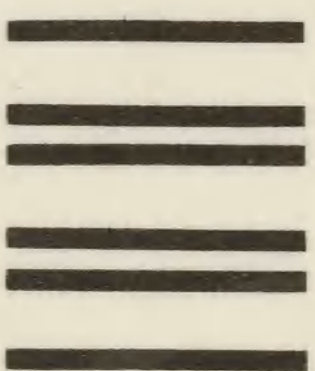


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